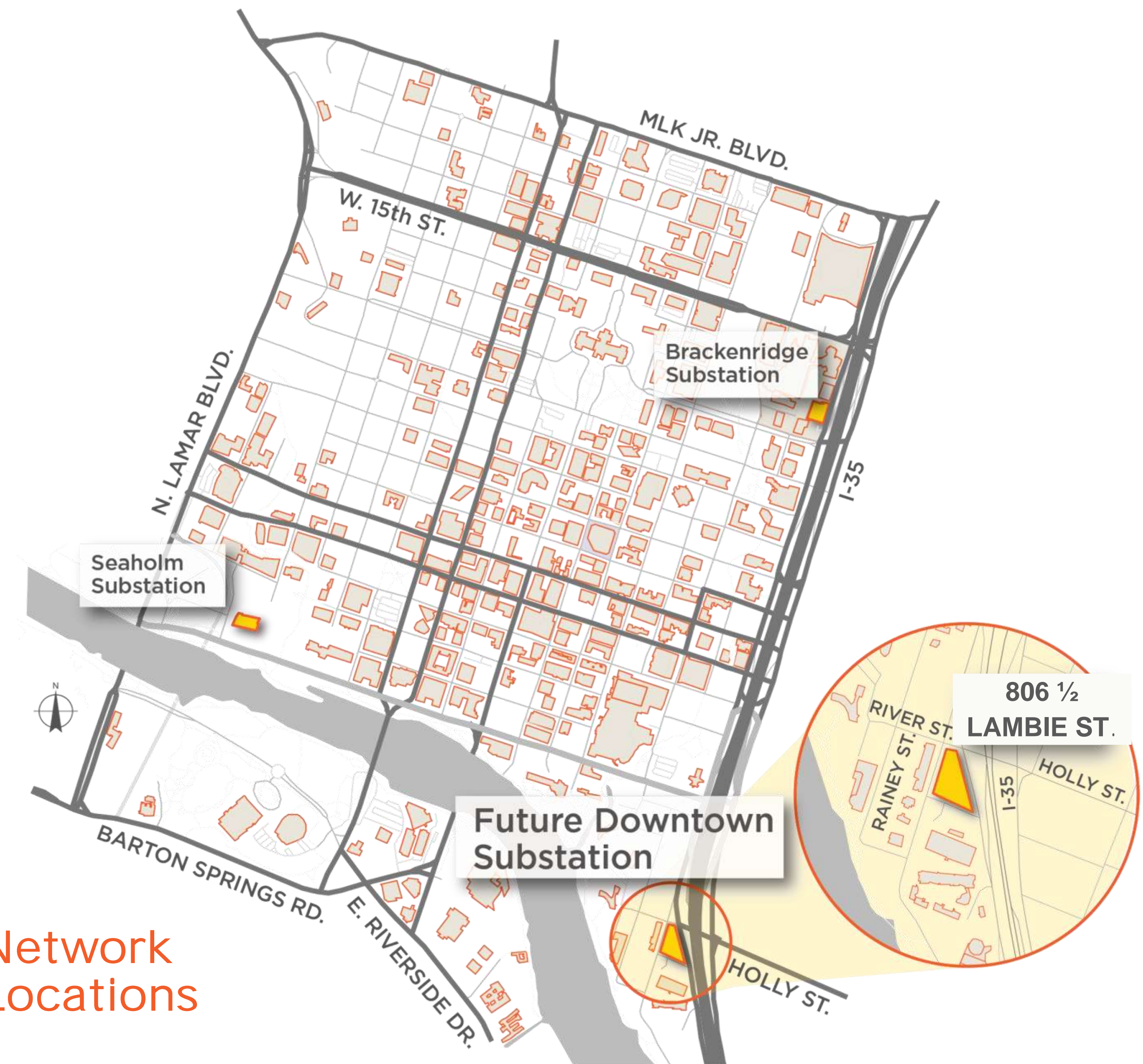


# Repowering Downtown

\$60M initiative to increase capacity, resiliency, and reliability to meet the needs of our growing city.

- Increase Distribution Tie Circuits
- Add 70 MVA to Seaholm Substation
- Build New Downtown Substation
- Rebuild Brackenridge Substation
- Upgrade Network Distribution Feeder Circuits
- Convert 69kV Transmission Lines to 138kV

Downtown Network  
Substation Locations





# Downtown Substation

Austin Energy operates 77 substations across 437 square miles of service area. The downtown substation is being designed as a gas-insulated switchgear substation, which is ideal for densely-populated urban locations.

	Gas-Insulated Switchgear (GIS) Compared to Air-Insulated Switchgear (AIS)
Compact Design	Significant footprint reduction (approximately 70% smaller)
Capital Costs	Approximately 2x more
O&M	Lower maintenance costs
Aesthetics	GIS portion in a building and station surrounded by enclosure
Reliability	GIS is less susceptible to faults
Installation	Faster site assembly with pre-assembly and testing completed at manufacturer
Equipment	Standard power transformers and enclosed medium voltage utilized to reduce cost and increase maintainability





# The Site

- Selected in 1999 for the future electric needs of downtown
- Austin Energy is coordinating with other involved agencies, including:
  - TxDOT
  - Watershed Protection for storm drain
- **Total Site:** 1.46 acres
- **Substation Footprint:** 0.81 acres
- **Site Updates:**
  - 3 transmission poles (currently 2) to allow clearance over heritage trees
  - Two driveways





# KEY MILESTONES

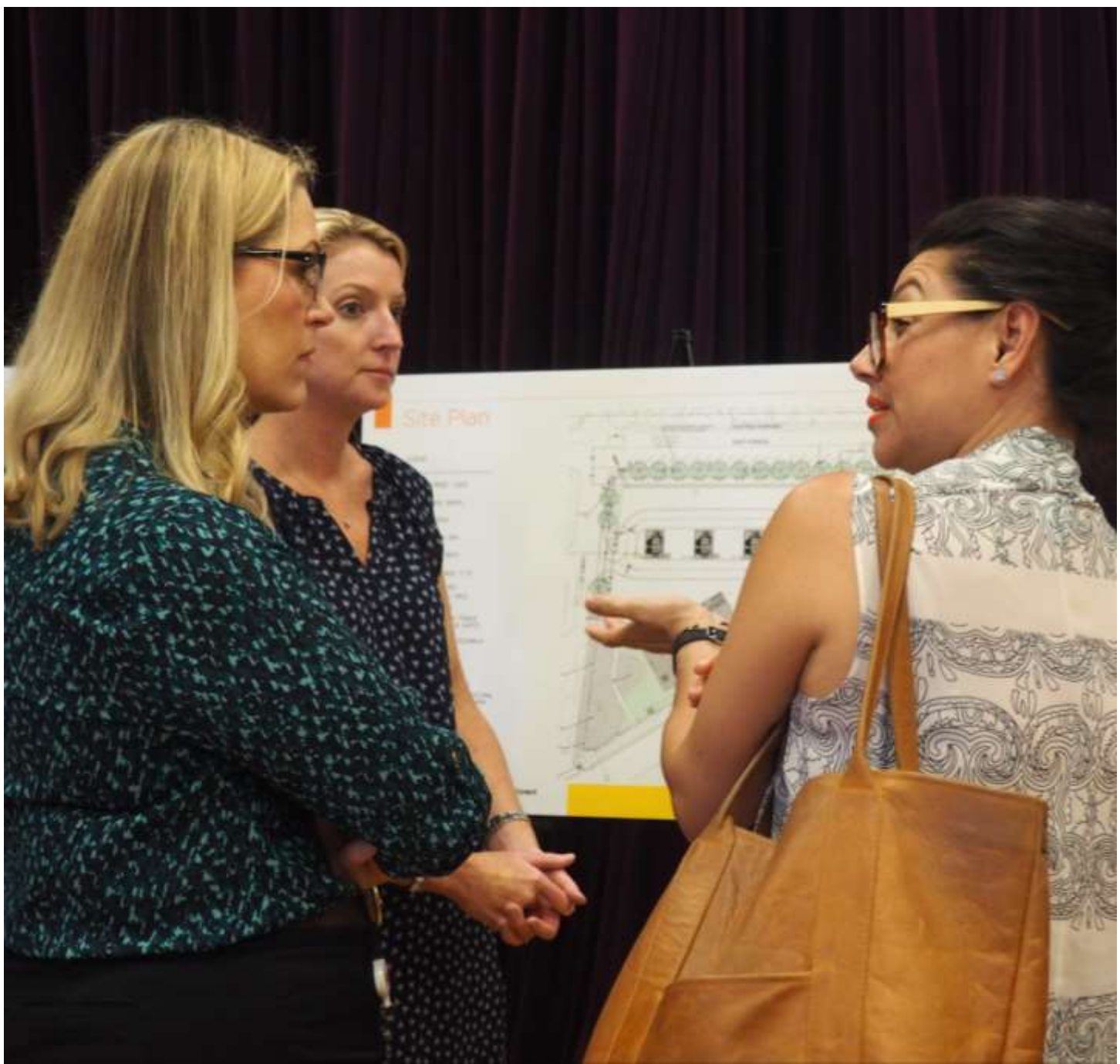
**PUBLIC MEETING #3 - September 2020**  
Shared results of site name, preferred design concepts, materials, and construction plans

**WATER & WASTEWATER RELOCATION - Fall 2019 - Spring 2020**

Relocation of wastewater and electric lines from to within City of Austin ROW along East Avenue

**REZONING OF SITE LOCATION - June 2020**  
Rezoning of site location from “SF3” Family Residence District to “P” public District

**FINALIZE DESIGN - Spring 2021**  
90-100% completion of substation engineering and design





# Community Engagement Summary

Over **600 responses** on preferences from the community

## PUBLIC MEETING #1: June 2018

- Purpose: Introduce project, build awareness, collect feedback on priorities
- 178 surveys received

## PUBLIC MEETING #2: February 2019

- Purpose: Collect feedback on aesthetic and layout concepts
- 440 surveys received

## PUBLIC MEETING #3: September 2020

- Purpose: Share preferred concepts, potential materials, site design, and process updates

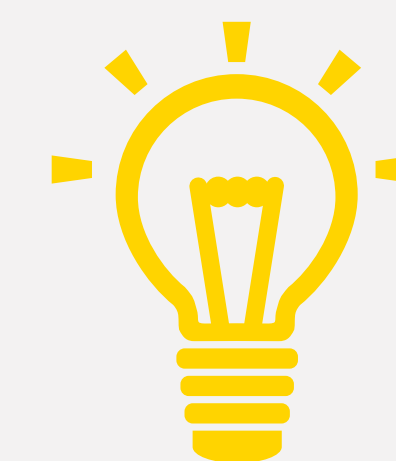
## WHAT WE HEARD



Priority for colorful and artistic features



Desire to preserve trees and incorporate native landscaping



Support for modern design for enclosure wall



# PUBLIC MEETING #3 – September 24, 2019

## SUMMARY OF PUBLIC INPUT

- Shared results for preferred design and landscaping concepts, potential materials, site name, and process updates
- Comments included support for maintaining the width of East Avenue during construction of streetscape and parking spot changes
- Interest in maintaining landscaping included in the rain garden and lighting
- Appreciation for continued information and engagement opportunities.




Repowering Downtown


### Community Engagement

June 2018 – Held public meeting and collected 178 surveys.

PREFERRED THEMES:

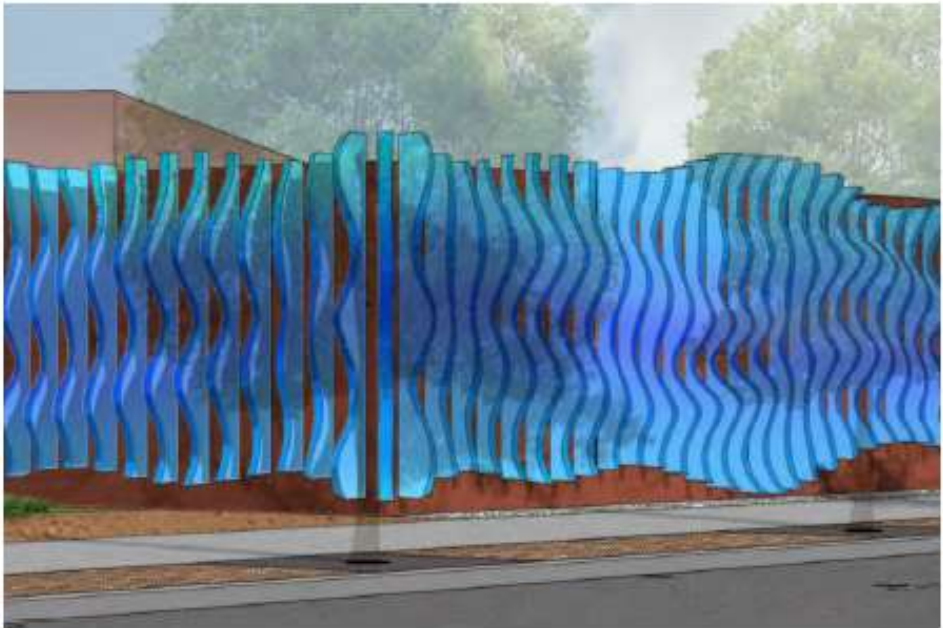
  
Colorful/Artistic

  
Nature-Based

  
Modern

February 2019 – Held public meeting and collected 440 surveys.

PREFERRED DESIGN:



PREFERRED NAME:

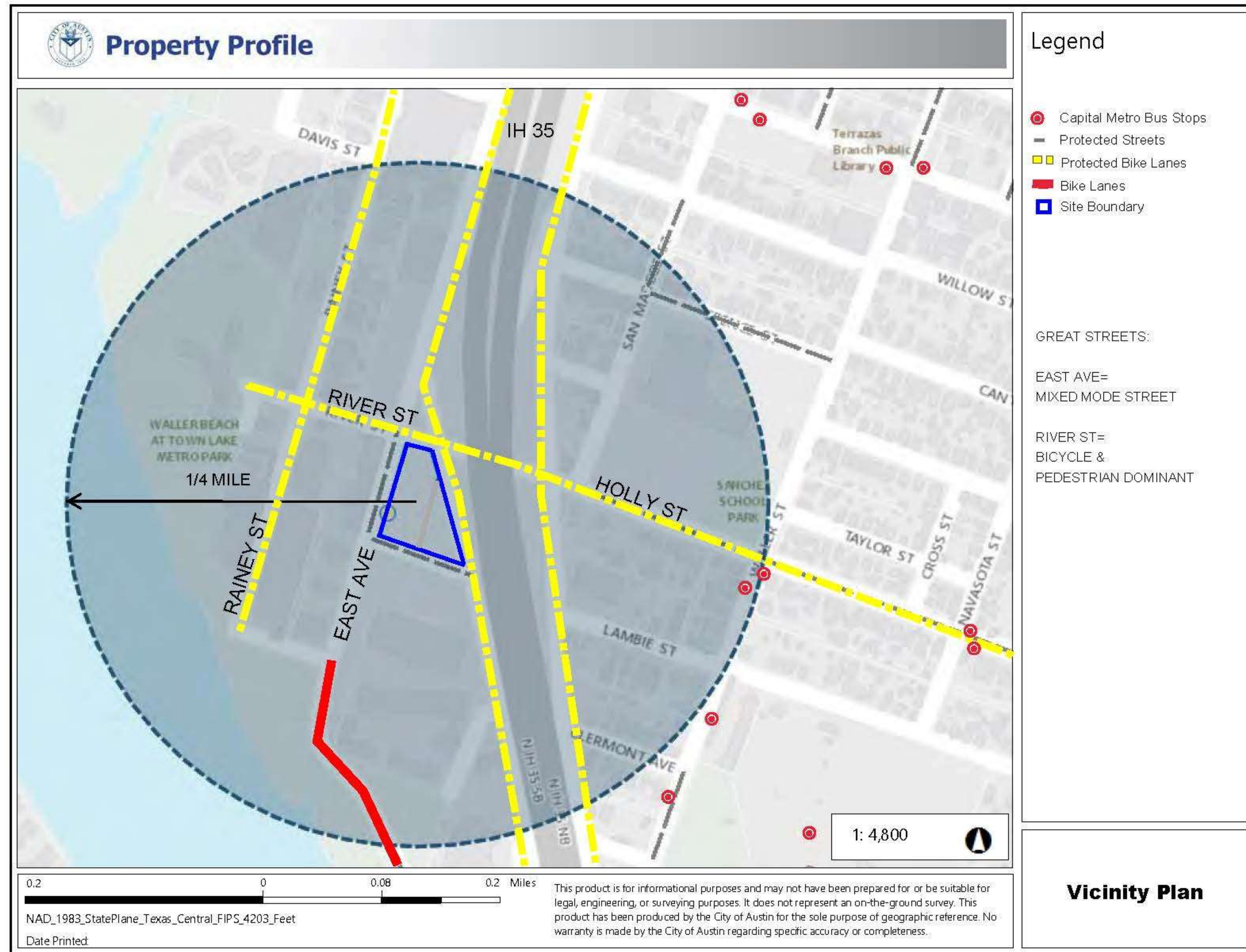
Rainey Street Substation

 Repowering Downtown



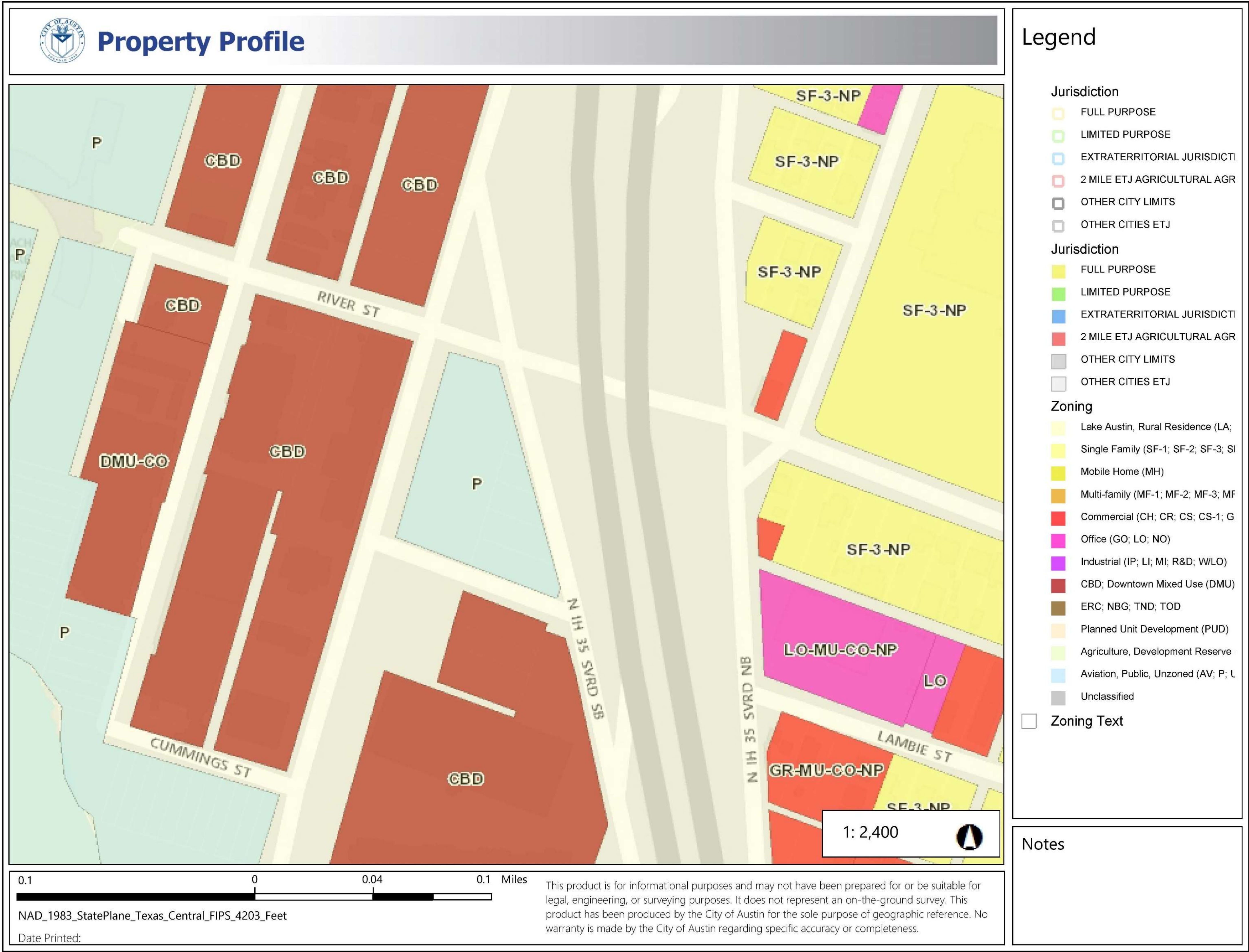


# Site Profile



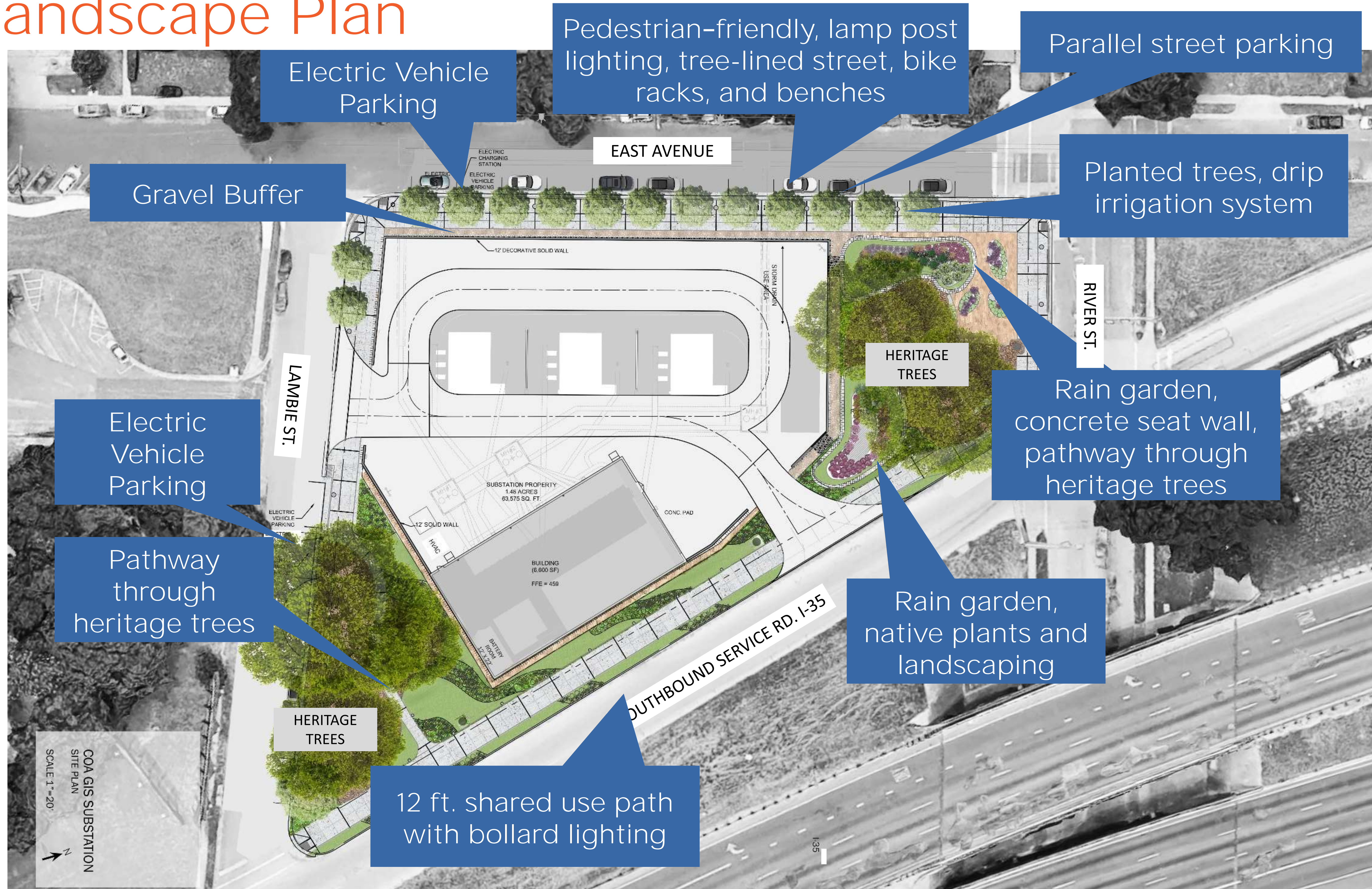


# Property Profile and Zoning





# Landscape Plan





# Enclosure Considerations

## Parameters

- GIS building height up to 28 feet tall
- Enclosure height up to 10 1/2 to 12 feet tall
- Enclosure will include removable panels for future maintenance and cannot be climbable
- Entrance gates will be integrated into design of the wall
- Equipment located outside of the GIS building is required to remain open and uncovered for safety, accessibility, and operational reasons





# View from East Avenue and Lambie Street



Repowering Downtown



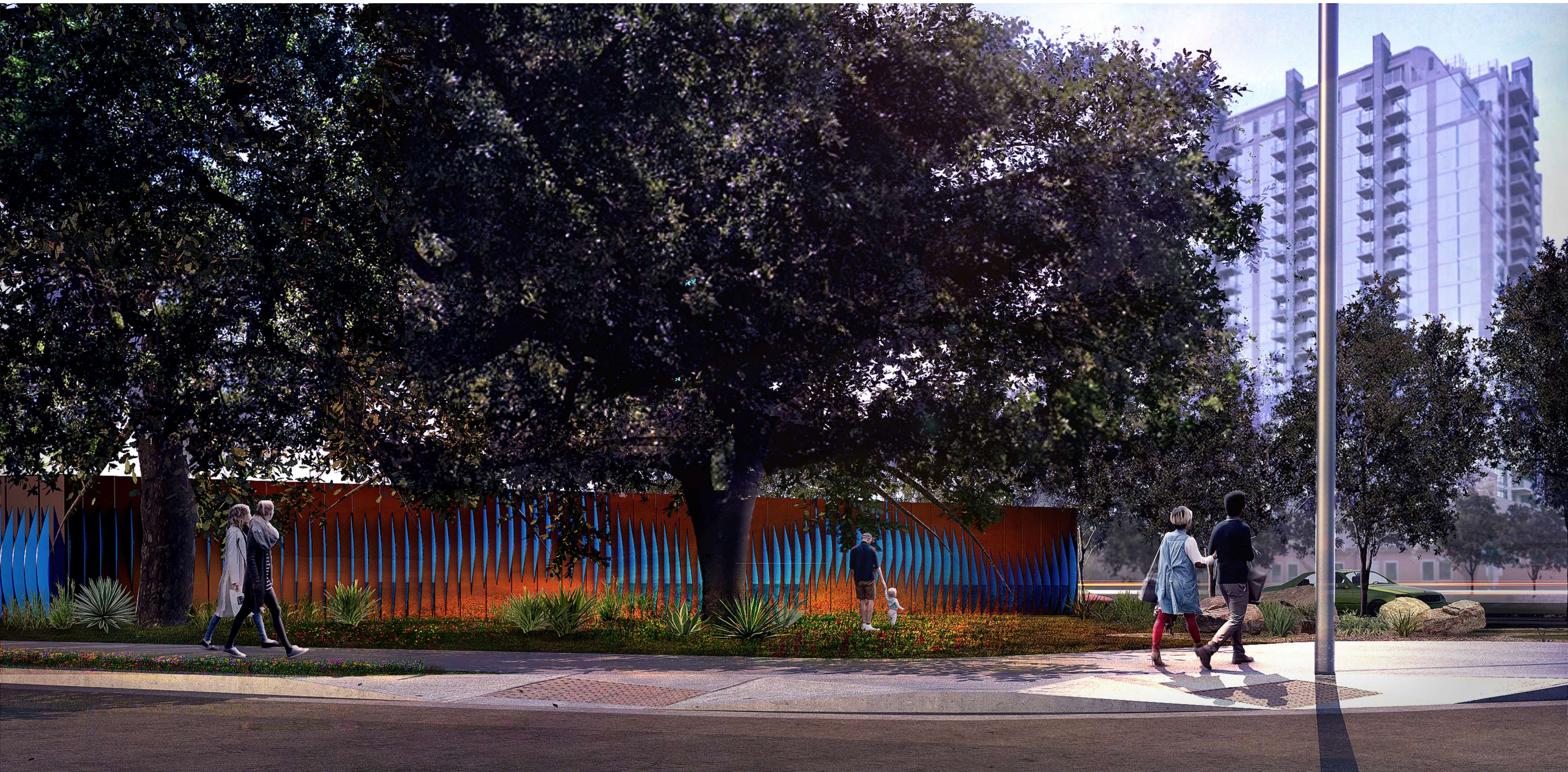


# Enclosure Wall- View from I-35 and Lambie Street



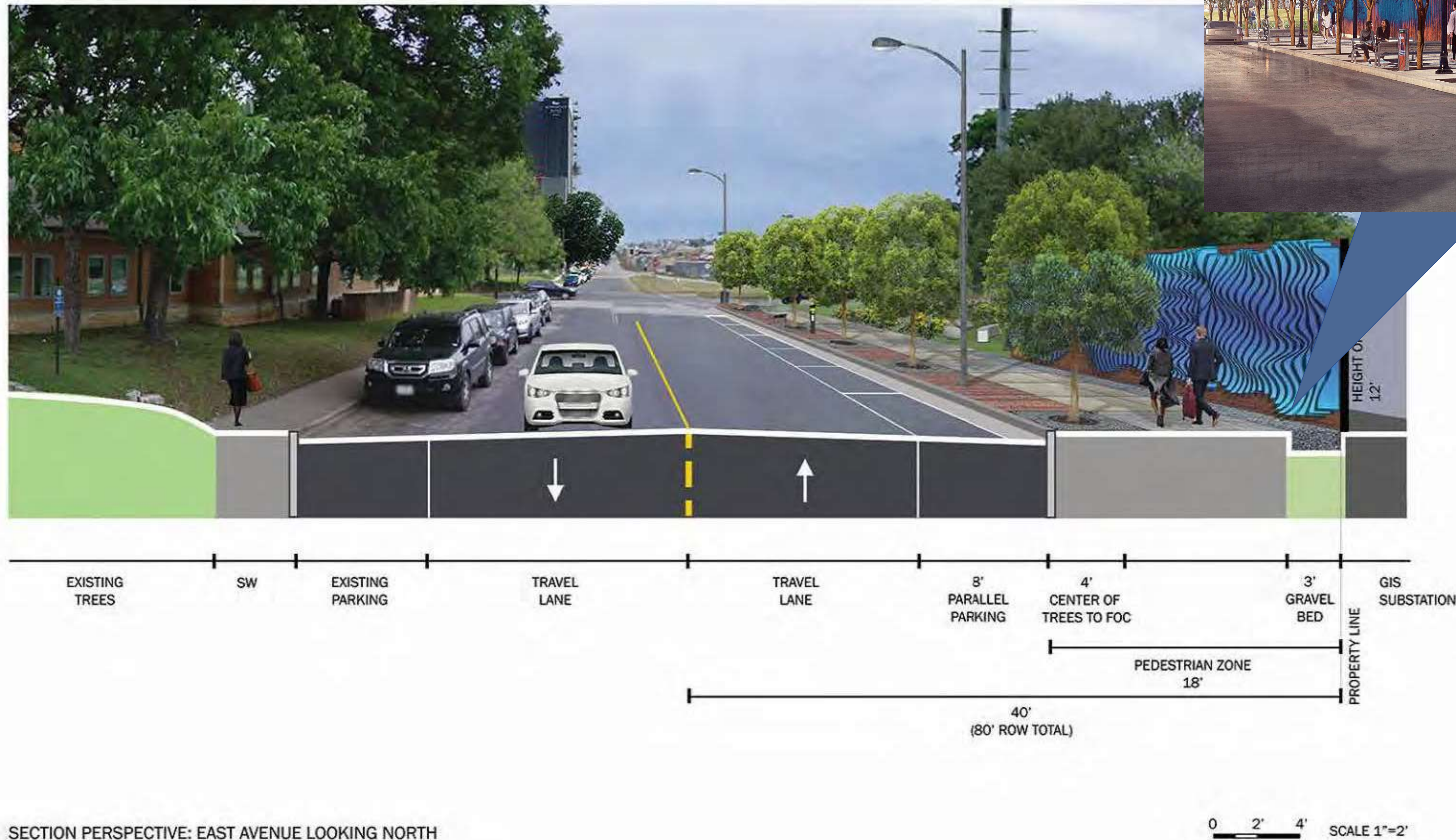


# Enclosure Wall – View from River Street and I-35





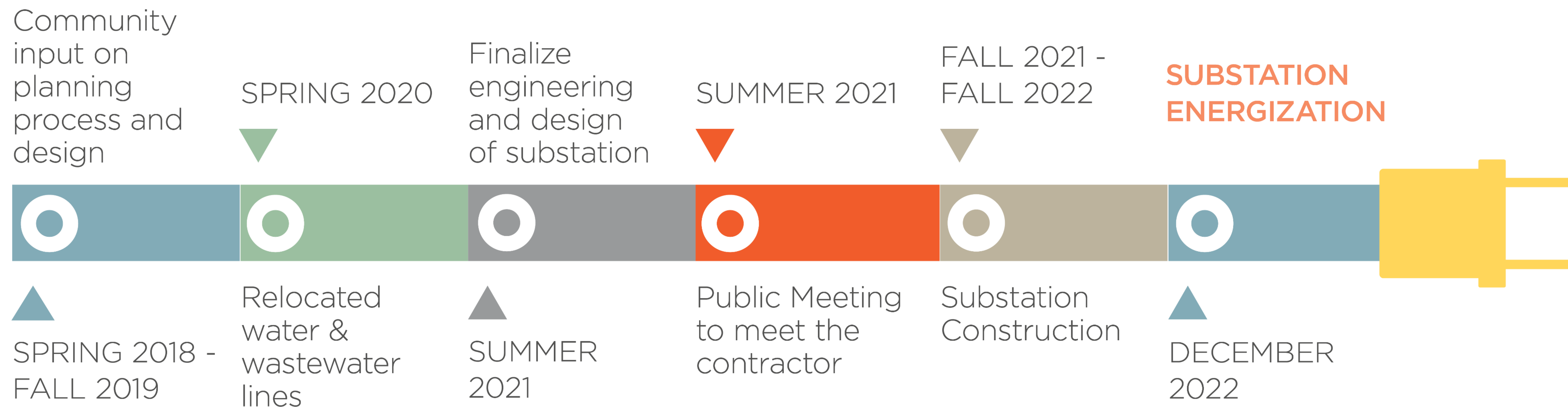
# East Avenue cross section



Repowering Downtown



# Schedule



## Next Steps:

- Discussion with the Design Commission
- Hire construction contractor
- Acquire City of Austin Permit
- Host Public Meeting to meet the contractor

